

State Water Resources Control Board

Division of Drinking Water

May 18, 2016
System No.: 5500040

Mr. Bob Steinbrink, Director
Bluebell Valley Mutual Water Company
15185 Mountain Lily Road
Sonora, CA 95370

**CITATION NO.: 03-11-16C-011
TOTAL COLIFORM MAXIMUM CONTAMINANT LEVEL VIOLATION
FOR MARCH 2016**

Enclosed is a Citation issued to the Bluebell Valley Mutual Water Company (hereinafter "Water System") public water system.

The Water System will be billed at the State Water Resources Control Board's (hereinafter "State Board") hourly rate (currently estimated at 153.00 per hour) for the time spent on issuing this Citation. California Health and Safety Code, Section 116577, provides that a public water system must reimburse the State Board for actual costs incurred by the State Board for specified enforcement actions, including but not limited to, preparing, issuing and monitoring compliance with a citation. At this time, the State Board has spent approximately 2.0 hour(s) on enforcement activities associated with this violation.

The Water System will receive an invoice sent from the State Board in August of the next fiscal year. This invoice will contain fees for any enforcement time spent on the Water System for the current fiscal year.

If you have any questions regarding this matter, please contact Lourdes Mertens of my staff at 559-447-3139.

Sincerely,



Kassy D. Chauhan, P.E.
Senior Sanitary Engineer, Merced District
Central California Section
SOUTHERN CALIFORNIA BRANCH
DRINKING WATER FIELD OPERATIONS

Enclosures

Certified Mail No.: 7015 1660 0000 0781 9630

cc: Tuolumne County Environmental Health Department
John Turner, Operator, 18803 Middle Camp Road Twain Harte, CA 95383

**CALIFORNIA
STATE WATER RESOURCES CONTROL BOARD
DIVISION OF DRINKING WATER**

Name of Water System: BLUEBELL VALLEY MUTUAL WATER COMPANY
Water System No.: 5500040

Attention: MR. BOB STEINBRINK, DIRECTOR
15185 Mountain Lily Road
Sonora, CA 95370

Issued: May 18, 2016

**CITATION FOR NONCOMPLIANCE
TOTAL COLIFORM MAXIMUM CONTAMINANT LEVEL VIOLATION,
SIGNIFICANT RISE IN BACTERIAL COUNT, TITLE 22, SECTION 64426**

March 2016

Issued on May 18, 2016

The California Health and Safety Code (hereinafter "CHSC"), Section 116650 authorizes the State Water Resources Control Board (hereinafter "State Board") to issue a citation to a public water system when the State Board determines that the public water system has violated or is violating the California Safe Drinking Water Act (hereinafter "California SDWA"), (CHSC, Division 104, Part 12, Chapter 4, commencing with Section 116270), or any regulation, standard, permit, or order issued or adopted thereunder.

1 The State Board, acting by and through its Division of Drinking Water (hereinafter "Division")
2 and the Deputy Director for the Division, hereby issues this citation pursuant to Section 116650
3 of the CHSC to the Bluebell Valley Mutual Water Company (hereinafter "Water System") for
4 violation of CHSC, Section 116555(a)(1) and California Code of Regulations (hereinafter
5 "CCR"), Title 22, Section 64426.
6

7 A copy of the applicable statutes and regulations are included in Appendix 1, which is attached
8 hereto and incorporated by reference.
9

10 **STATEMENT OF FACTS**

11 The Bluebell Valley Water Company (hereinafter "Water System") is a privately-owned
12 community water system located in Tuolumne County that supplies water for domestic purposes
13 to approximately 230 individuals through approximately 90 service connections. The Water
14 System is a community public water system as defined in CHSC, section 116275.
15

16 The Water System is required to collect a minimum of one (1) distribution system bacteriological
17 sample per month. The bacteriological water analysis result submitted by the Water System
18 reported the presence of *fecal* and total coliform bacteria in a routine sample collected by the
19 Water System on March 9, 2016. In addition, all three repeat samples in the distribution system
20 reported the presence of total coliform bacteria with the original sample location reported
21 presence of *E. coli* bacteria. Well 1A reported the presence of total coliform bacteria. Well 1B
22 reported the presence of total coliform and *E. coli* bacteria. Well 2 was absent for total coliform
23 bacteria. A Tier 1 public notification was issued on March 11, 2016. Post disinfection, a total of
24 13 samples in the distribution system including Well No. 2 reported the absence of total coliform
25 bacteria. The following month, April 2016, six routine distribution system samples including a
26 cycle test of Well 1A and Well 4 reported the absence of total coliform bacteria. The Division
27

1 rescinded the Boil Water Order on March 21, 2016. All water samples for coliform bacteria
2 collected during March and April 2016 are summarized in Appendix 5.

3
4 The source of the contamination is Well 1B which tested positive for total coliform and *E. coli*
5 bacteria in a repeat sample collected on March 11, 2016. The bacteria samples were collected
6 following a heavy rain event. A cycle test of Well 1B conducted on March 10, 2016 reported
7 >8.0 MPN/100 mls for total coliform and *E.coli* bacteria. In February 2015, the Water System
8 was issued a citation for the same violation and the investigation suggests that there is a leach
9 field nearby that is not meeting the minimum setback requirements. Based on this, Well 1B is
10 deemed to be under the influence of surface water and is now disconnected from the water
11 system.

12
13 The California Groundwater Rule (GWR) requires the collection of a sample for bacteriological
14 evaluation from the well(s) serving the system in response to a coliform positive distribution
15 sample within 24 hours of being notified of the coliform positive result. Based on data submitted
16 to the Division, the Water System collected their raw water well samples from Wells 1A, 1B and
17 2 in a timely manner in follow up to the total coliform positive routine sample collected on March
18 9, 2016. Bacteriological sampling of these wells was conducted on March 11, 2016.

20 DETERMINATION

21 Based on the above Statement of Facts, the Division has determined that the Water System
22 and its owner of record have has violated CHSC, Section 116550 and Section 64426 in that the
23 water produced by the Water System failed to comply with Title 22, CCR, Section 64426,
24 Significant Rise in Bacterial Count for the month of March 2016 due to the presence of *E.coli*
25 bacteria in a repeat sample collected on March 11, 2016.

DIRECTIVES

The Bluebell Valley Mutual Water Company and its owner of record are hereby directed to take the following actions:

1. Comply with Title 22, CCR, Section 64426, in all future monitoring periods.
2. By **June 1, 2016**, the Water System shall provide to the Division certification of public notification using the enclosed Proof of Notification form (Appendix 3). A copy of the final notice that was distributed is included as Appendix 2.
3. Submit the information required by CCR, Title 22, Section 64426(b)(2) on or before **June 1, 2016**. Appendix 4: Positive Total Coliform Investigation may be used to fulfill this directive.
4. By **June 1, 2016**, submit proof that Well 1B is physically disconnected from the water system.
5. By **June 1, 2016**, submit timeline of proper destruction of Well 1B. The Water System must obtain a permit through the Tuolumne County Environmental Health Division for proper destruction of Well 1B. Well 1B must be destroyed by December 31, 2016 if the Water System does not plan to treat the water produced by Well 1B.

6. All submittals required by this Citation shall be addressed to:

Kassy D. Chauhan, Senior Sanitary Engineer
State Water Resources Control Board
Division of Drinking Water, Visalia District
265 W. Bullard Ave, Suite 101
Fresno, CA 93704

The State Board reserves the right to make such modifications to this Citation as it may deem necessary to protect public health and safety. Such modifications may be issued as amendments to this Citation and shall be effective upon issuance.

Nothing in this Citation relieves the Water System of its obligation to meet the requirements of the California SDWA (CHSC, Division 104, Part 12, Chapter 4, commencing with Section 116270), or any regulation, standard, permit or order issued or adopted thereunder.

PARTIES BOUND

This Citation shall apply to and be binding upon the Water System, its owners, shareholders, officers, directors, agents, employees, contractors, successors, and assignees.

SEVERABILITY

The directives of this Citation are severable, and the Water System shall comply with each and every provision thereof notwithstanding the effectiveness of any provision.

FURTHER ENFORCEMENT ACTION

The California SDWA authorizes the State Board to: issue a citation with assessment of administrative penalties to a public water system for violation or continued violation of the requirements of the California SDWA or any regulation, permit, standard, citation, or order issued or adopted thereunder including, but not limited to, failure to correct a violation identified

1 in a citation or compliance order. The California SDWA also authorizes the State Board to take
2 action to suspend or revoke a permit that has been issued to a public water system if the public
3 water system has violated applicable law or regulations or has failed to comply with an order of
4 the State Board, and to petition the superior court to take various enforcement measures
5 against a public water system that has failed to comply with an order of the State Board. The
6 State Board does not waive any further enforcement action by issuance of this Citation
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13 Kassy D. Chauhan 5/18/16
14 Kassy D. Chauhan, P.E. Date
15 Senior Sanitary Engineer, Merced District
16 DRINKING WATER FIELD OPERATIONS BRANCH



17 Appendices (5):

- 18 1. Applicable Statutes and Regulations
- 19 2. Posted Public Notice
- 20 3. Compliance Certification Form
- 21 4. Positive Total Coliform Investigation Report Form
- 22 5. Bacteriological Distribution/Source Monitoring Report

23
24 Certified Mail No. 7015 1660 0000 0781 9630

25 KDC/mlm
26
27

APPENDIX 1. APPLICABLE STATUTES AND REGULATIONS FOR

Violations of Total Coliform Rule

California Health and Safety Code (CHSC):

Section 116271 states in relevant part:

(a) The State Water Resources Control Board succeeds to and is vested with all of the authority, duties, powers, purposes, functions, responsibilities, and jurisdiction of the State Department of Public Health, its predecessors, and its director for purposes of all of the following:

- (1) The Environmental Laboratory Accreditation Act (Article 3 (commencing with Section 100825) of Chapter 4 of Part 1 of Division 101).
- (2) Article 3 (commencing with Section 106875) of Chapter 4 of Part 1.
- (3) Article 1 (commencing with Section 115825) of Chapter 5 of Part 10.
- (4) This chapter and the Safe Drinking Water State Revolving Fund Law of 1997 (Chapter 4.5 (commencing with Section 116760)).
- (5) Article 2 (commencing with Section 116800), Article 3 (commencing with Section 116825), and Article 4 (commencing with Section 116875) of Chapter 5.
- (6) Chapter 7 (commencing with Section 116975).
- (7) The Safe Drinking Water, Water Quality and Supply, Flood Control, River and Coastal Protection Bond Act of 2006 (Division 43 (commencing with Section 75001) of the Public Resources Code).
- (8) The Water Recycling Law (Chapter 7 (commencing with Section 13500) of Division 7 of the Water Code).
- (9) Chapter 7.3 (commencing with Section 13560) of Division 7 of the Water Code.
- (10) The California Safe Drinking Water Bond Law of 1976 (Chapter 10.5 (commencing with Section 13850) of Division 7 of the Water Code).
- (11) Wholesale Regional Water System Security and Reliability Act (Division 20.5 (commencing with Section 73500) of the Water Code).
- (12) Water Security, Clean Drinking Water, Coastal and Beach Protection Act of 2002 (Division 26.5 (commencing with Section 79500) of the Water Code).

(b) The State Water Resources Control Board shall maintain a drinking water program and carry out the duties, responsibilities, and functions described in this section. Statutory reference to "department," "state department," or "director" regarding a function transferred to the State Water Resources Control Board shall refer to the State Water Resources Control Board. This section does not impair the authority of a local health officer to enforce this chapter or a county's election not to enforce this chapter, as provided in Section 116500...

- (k)
- (1) The State Water Resources Control Board shall appoint a deputy director who reports to the executive director to oversee the issuance and enforcement of public water system permits and other duties as appropriate. The deputy director shall have public health expertise.
 - (2) The deputy director is delegated the State Water Resources Control Board's authority to provide notice, approve notice content, approve emergency notification plans, and take other action pursuant to Article 5 (commencing with Section 116450), to issue, renew, reissue, revise, amend, or deny any public water system permits pursuant to Article 7 (commencing with Section 116525), to suspend or revoke any public water system permit pursuant to Article 8 (commencing with Section 116625), and to issue citations, assess penalties, or issue orders pursuant to Article 9 (commencing with Section 116650). Decisions and actions of the deputy director taken pursuant to Article 5 (commencing with Section 116450) or Article 7 (commencing with Section 116525) are deemed decisions and actions taken, but are not subject to reconsideration, by the State Water Resources Control Board. Decisions and actions of the deputy director taken pursuant to Article 8 (commencing with Section 116625) and Article 9 (commencing with Section 116650) are deemed decisions and actions taken by the State Water Resources Control Board, but any aggrieved person may petition the State Water Resources Control Board for reconsideration of the decision or action. This subdivision is not a limitation on the State Water Resources Control Board's authority to delegate any other powers and duties.

Section 116555 states in relevant part:

(a) Any person who owns a public water system shall ensure that the system does all of the following:

- (1) Complies with primary and secondary drinking water standards.
- (2) Will not be subject to backflow under normal operating conditions.
- (3) Provides a reliable and adequate supply of pure, wholesome, healthful, and potable water.

Section 116650 states in relevant part:

(a) If the department determines that a public water system is in violation of this chapter or any regulation, permit, standard, citation, or order issued or adopted thereunder, the department may issue a citation to the public water system. The citation shall be served upon the public water system personally or by certified mail. Service shall be deemed effective as of the date of personal service or the date of receipt of the certified mail. If a person to whom a citation is directed refuses to accept delivery of the certified mail, the date of service shall be deemed to be the date of mailing.

Appendix 1. Applicable Statutes And Regulations

- (b) Each citation shall be in writing and shall describe the nature of the violation or violations, including a reference to the statutory provision, standard, order, citation, permit, or regulation alleged to have been violated.
- (c) A citation may specify a date for elimination or correction of the condition constituting the violation.
- (d) A citation may include the assessment of a penalty as specified in subdivision (e).
- (e) The department may assess a penalty in an amount not to exceed one thousand dollars (\$1,000) per day for each day that a violation occurred, and for each day that a violation continues to occur. A separate penalty may be assessed for each violation.

California Code of Regulations, Title 22 (CCR):

Section 64421 (General Requirements) states:

- (a) Each water supplier shall:
 - (1) Develop a routine sample siting plan as required in section 64422;
 - (2) Collect routine, repeat and replacement samples as required in Sections 64423, 64424, and 64425;
 - (3) Have all samples analyzed by laboratories approved to perform those analyses by the State Board and report results as required in section 64423.1;
 - (4) Notify the State Board when there is an increase in coliform bacteria in bacteriological samples as required in section 64426; and
 - (5) Comply with the Maximum Contaminant Level as required in section 64426.1.
- (b) Water suppliers shall perform additional bacteriological monitoring as follows:
 - (1) After construction or repair of wells;
 - (2) After main installation or repair;
 - (3) After construction, repair, or maintenance of storage facilities; and
 - (4) After any system pressure loss to less than five psi. Samples collected shall represent the water quality in the affected portions of the system.

Section 64422 (Routine Sample Siting Plan) states:

- (a) By September 1, 1992, each water supplier shall develop and submit to the State Board a siting plan for the routine collection of samples for total coliform analysis, subject to the following:
 - (1) The sample sites chosen shall be representative of water throughout the distribution system including all pressure zones, and areas supplied by each water source and distribution reservoir.
 - (2) The water supplier may rotate sampling among the sample sites if the total number of sites needed to comply with (a)(1) above exceeds the number of samples required according to Table 64423-A. The rotation plan shall be described in the sample siting plan.
- (b) If personnel other than certified operators will be performing field tests and/or collecting samples, the sample siting plan shall include a declaration that such personnel have been trained, pursuant to §64415 (b).
- (c) The supplier shall submit an updated plan to the State Board at least once every ten years and at any time the plan no longer ensures representative monitoring of the system.

Section 64423 (Routine Sampling) states:

- (a) Each water supplier shall collect routine bacteriological water samples as follows:
 - (1) The minimum number of samples for community water systems shall be based on the known population served or the total number of service connections, whichever results in the greater number of samples, as shown in Table 64423-A. A community water system using groundwater which serves 25-1000 persons may request from the State Board a reduction in monitoring frequency. The minimum reduced frequency shall not be less than one sample per quarter.
 - (2) The minimum number of samples for nontransient-noncommunity water systems shall be based on the known population served as shown in Table 64423-A during those months when the system is operating. A nontransient-noncommunity water system using groundwater which serves 25-1000 persons may request from the State Board a reduction in monitoring frequency if it has not violated the requirements in this article during the past twelve months. The minimum reduced frequency shall not be less than one sample per quarter.
 - (3) The minimum number of samples for transient-noncommunity water systems using groundwater and serving 1000 or fewer persons a month shall be one in each calendar quarter during which the system provides water to the public.
 - (4) The minimum number of samples for transient-noncommunity water systems using groundwater and serving more than 1000 persons during any month shall be based on the known population served as shown in Table 64423-A, except that the water supplier may request from the State Board a reduction in monitoring for any month the system serves 1000 persons or fewer. The minimum reduced frequency shall not be less than one sample in each calendar quarter during which the system provides water to the public.
 - (5) The minimum number of samples for transient-noncommunity water systems using approved surface water shall be based on the population served as shown in Table 64423-A. A system using groundwater under the direct influence of surface water shall begin monitoring at this frequency by the end of the sixth month after the State Board has designated the source to be approved surface water.

Appendix 1. Applicable Statutes And Regulations

(6) A public water system shall collect samples at regular time intervals throughout the month, except that a system using groundwater which serves 4,900 persons or fewer may collect all required samples on a single day if they are taken from different sites.

(b) In addition to the minimum sampling requirements, all water suppliers using approved surface water which do not practice treatment in compliance with Sections 64650 through 64666, shall collect a minimum of one sample before or at the first service connection each day during which the turbidity level of the water delivered to the system exceeds 1 NTU. The sample shall be collected within 24 hours of the exceedance and shall be analyzed for total coliforms. If the water supplier is unable to collect and/or analyze the sample within the 24-hour time period because of extenuating circumstances beyond its control, the supplier shall notify the State Board within the 24-hour time period and may request an extension. Sample results shall be included in determining compliance with the MCL for total coliforms in Section 64426.1.

(c) If any routine, repeat, or replacement sample is total coliform-positive, then the water supplier shall collect repeat samples in accordance with Section 64424 and comply with the reporting requirements specified in Sections 64426 and 64426.1.

Table 64423-A

Minimum Number of Routine Total Coliform Samples

| Monthly Population Served | Service Connections | Minimum Number of Samples |
|---------------------------|------------------------|---------------------------|
| 25 to 1000 | 15 to 400 | 1 per month |
| 1,001 to 2,500 | 401 to 890 | 2 per month |
| 2,501 to 3,300 | 891 to 1,180 | 3 per month |
| 3,301 to 4,100 | 1,181 to 1,460 | 4 per month |
| 4,101 to 4,900 | 1,461 to 1,750 | 5 per month |
| 4,901 to 5,800 | 1,751 to 2,100 | 6 per month |
| 5,801 to 6,700 | 2,101 to 2,400 | 7 per month |
| 6,701 to 7,600 | 2,401 to 2,700 | 2 per week |
| 7,601 to 12,900 | 2,701 to 4,600 | 3 per week |
| 12,901 to 17,200 | 4,601 to 6,100 | 4 per week |
| 17,201 to 21,500 | 6,101 to 7,700 | 5 per week |
| 21,501 to 25,000 | 7,701 to 8,900 | 6 per week |
| 25,001 to 33,000 | 8,901 to 11,800 | 8 per week |
| 33,001 to 41,000 | 11,801 to 14,600 | 10 per week |
| 41,001 to 50,000 | 14,601 to 17,900 | 12 per week |
| 50,001 to 59,000 | 17,901 to 21,100 | 15 per week |
| 59,001 to 70,000 | 21,101 to 25,000 | 18 per week |
| 70,001 to 83,000 | 25,001 to 29,600 | 20 per week |
| 83,001 to 96,000 | 29,601 to 34,300 | 23 per week |
| 96,001 to 130,000 | 34,301 to 46,400 | 25 per week |
| 130,001 to 220,000 | 46,401 to 78,600 | 30 per week |
| 220,001 to 320,000 | 78,601 to 114,300 | 38 per week |
| 320,001 to 450,000 | 114,301 to 160,700 | 50 per week |
| 450,001 to 600,000 | 160,701 to 214,300 | 55 per week |
| 600,001 to 780,000 | 214,301 to 278,600 | 60 per week |
| 780,001 to 970,000 | 278,601 to 346,400 | 70 per week |
| 970,001 to 1,230,000 | 346,401 to 439,300 | 75 per week |
| 1,230,001 to 1,520,000 | 439,301 to 542,900 | 85 per week |
| 1,520,001 to 1,850,000 | 542,901 to 660,700 | 90 per week |
| 1,850,001 to 2,270,000 | 660,701 to 810,700 | 98 per week |
| 2,270,001 to 3,020,000 | 810,701 to 1,078,600 | 105 per week |
| 3,020,001 to 3,960,000 | 1,078,601 to 1,414,300 | 110 per week |
| 3,960,001 or more | 1,414,301 or more | 120 per week |

Section 64423.1 (Sample Analysis and Reporting of Results) states:

(a) The water supplier shall designate (label) each sample as routine, repeat, replacement, or "other" pursuant to Section 64421(b), and have each sample analyzed for total coliforms. The supplier also shall require the laboratory to analyze the same sample for fecal coliforms or *Escherichia coli* (*E. coli*) whenever the presence of total coliforms is indicated. As a minimum, the analytical results shall be reported in terms of the presence or absence of total or fecal coliforms, or *E. coli* in the sample, whichever is appropriate.

(b) The water supplier shall require the laboratory to notify the supplier within 24 hours, whenever the presence of total coliforms, fecal coliforms or *E. coli* is demonstrated in a sample or a sample is invalidated due to interference problems, pursuant to Section 64425(b), and shall ensure that a contact person is available to receive these analytical results 24-hours a day. The water supplier shall also require the laboratory to immediately notify the State Board of any positive bacteriological results if the laboratory cannot make direct contact with the designated contact person within 24 hours.

(c) Analytical results of all required samples collected for a system in a calendar month shall be reported to the State Board not later than the tenth day of the following month, as follows:

(1) The water supplier shall submit a monthly summary of the bacteriological monitoring results to the State Board.

Appendix 1. Applicable Statutes And Regulations

(2) For systems serving fewer than 10,000 service connections or 33,000 persons, the water supplier shall require the laboratory to submit copies of all required bacteriological monitoring results directly to the State Board.

(3) For systems serving more than 10,000 service connections, or 33,000 persons, the water supplier shall require the laboratory to submit copies of bacteriological monitoring results for all positive routine samples and all repeat samples directly to the State Board.

(d) Laboratory reports shall be retained by the water supplier for a period of at least five years and shall be made available to the State Board upon request.

Section 64424 (Repeat Sampling) states in relevant part:

(a) If a routine sample is total coliform-positive, the water supplier shall collect a repeat sample set as described in paragraph (1) within 24 hours of being notified of the positive result. The repeat samples shall all be collected within the same 24 hour time period. A single service connection system may request that the State Board allow the collection of the repeat sample set over a four-day period.

(1) For a water supplier that normally collects more than one routine sample a month, a repeat sample set shall be at least three samples for each total coliform-positive sample. For a water supplier that normally collects one or fewer samples per month, a repeat sample set shall be at least four samples for each total coliform-positive sample.

(2) If the water supplier is unable to collect the samples within the 24-hour time period specified in subsection (a) or deliver the samples to the laboratory within 24 hours after collection because of circumstances beyond its control, the water supplier shall notify the State Board within 24 hours. The State Board will then determine how much time the supplier will have to collect the repeat samples.

(b) When collecting the repeat sample set, the water supplier shall collect at least one repeat sample from the sampling tap where the original total coliform-positive sample was taken. Other repeat samples shall be collected within five service connections upstream or downstream of the original site. At least one sample shall be from upstream and one from downstream unless there is no upstream and/or downstream service connection.

(c) If one or more samples in the repeat sample set is total coliform-positive, the water supplier shall collect and have analyzed an additional set of repeat samples as specified in subsections (a) and (b). The supplier shall repeat this process until either no coliforms are detected in one complete repeat sample set or the supplier determines that the MCL for total coliforms specified in Section 64426.1 has been exceeded and notifies the State Board.

(d) If a public water system for which fewer than five routine samples/month are collected has one or more total coliform-positive samples, the water supplier shall collect at least five routine samples the following month. If the supplier stops supplying water during the month after the total coliform-positive(s), at least five samples shall be collected during the first month the system resumes operation. A water supplier may request the State Board waive the requirement to collect at least five routine samples the following month, but a waiver will not be granted solely on the basis that all repeat samples are total coliform-negative. To request a waiver, one of the following conditions shall be met:

(1) The State Board conducts a site visit before the end of the next month the system provides water to the public to determine whether additional monitoring and/or corrective action is necessary to protect public health.

(2) The State Board determines why the sample was total coliform-positive and establishes that the system has corrected the problem or will correct the problem before the end of the next month the system serves water to the public. If a waiver is granted, a system shall collect at least one routine sample before the end of the next month it serves water to the public and use it to determine compliance with Section 64426.1.

Section 64425 (Sample Invalidation) states:

(a) A water supplier may request the Department to invalidate a sample for which a total coliform-positive result has been reported if the supplier demonstrates:

(1) All repeat sample(s) collected at the same tap as the original total coliform-positive sample also are total coliform-positive and all repeat samples collected within five service connections of the original tap are not total coliform-positive; or

(2) The laboratory did not follow the prescribed analytical methods pursuant to §64415(a), based on a review of laboratory documentation by the Department. The supplier shall submit to the Department a written request for invalidation along with the laboratory documentation, the supplier's sample collection records and any observations noted during sample collection and delivery. The water supplier shall require the laboratory to provide the supplier with documentation which shall include, but not be limited to:

(A) A letter from the director of the laboratory having generated the data, confirming the invalidation request by reason of laboratory accident or error;

(B) Complete sample identification, laboratory sample log number (if used), date and time of collection, date and time of receipt by the laboratory, date and time of analysis for the sample(s) in question;

(C) Complete description of the accident or error alleged to have invalidated the result(s);

(D) Copies of all analytical, operating, and quality assurance records pertaining to the incident in question; and

(E) Any observations noted by laboratory personnel when receiving and analyzing the sample(s) in question.

(b) Whenever any total coliform sample result indicative of the absence of total coliforms has been declared invalid by the laboratory due to interference problems as specified at 40 Code Federal Regulations, Section 141.2100(c)(2), the supplier shall collect a replacement sample from the same location as the original sample within 24 hours of being notified of the interference problem, and have it analyzed for the presence of total coliforms. The supplier shall continue to re-sample at the original site within 24 hours and have the samples analyzed until a valid result is obtained.

Appendix 1. Applicable Statutes And Regulations

Section 64426 (Significant Rise in Bacterial Count) states in relevant part:

- (a) Any of the following criteria shall indicate a possible significant rise in bacterial count:
 - (1) A system collecting at least 40 samples per month has a total coliform-positive routine sample followed by two total coliform-positive repeat samples in the repeat sample set;
 - (2) A system has a sample which is positive for fecal coliform or *E. coli*; or
 - (3) A system fails the total coliform Maximum Contaminant Level (MCL) as defined in Section 64426.1.
- (b) When the coliform levels specified in subsection (a) are reached or exceeded, the water supplier shall:
 - (1) Contact the State Board by the end of the day on which the system is notified of the test result or the system determines that it has exceeded the MCL, unless the notification or determination occurs after the State Board office is closed, in which case the supplier shall notify the State Board within 24 hours; and
 - (2) Submit to the State Board information on the current status of physical works and operating procedures which may have caused the elevated bacteriological findings, or any information on community illness suspected of being waterborne. This shall include, but not be limited to:
 - (A) Current operating procedures that are or could potentially be related to the increase in bacterial count;
 - (B) Any interruptions in the treatment process;
 - (C) System pressure loss to less than 5 psi;
 - (D) Vandalism and/or unauthorized access to facilities;
 - (E) Physical evidence indicating bacteriological contamination of facilities;
 - (F) Analytical results of any additional samples collected, including source samples;
 - (G) Community illness suspected of being waterborne; and
 - (H) Records of the investigation and any action taken.

Section 64426.1 (Total Coliform Maximum Contaminant Level (MCL)) states in relevant part:

- (b) A public water system is in violation of the total coliform MCL when any of the following occurs:
 - (1) For a public water system which collects at least 40 samples per month, more than 5.0 percent of the samples collected during any month are total coliform-positive; or
 - (2) For a public water system which collects fewer than 40 samples per month, more than one sample collected during any month is total coliform-positive; or
 - (3) Any repeat sample is fecal coliform-positive or *E. coli*-positive; or
 - (4) Any repeat sample following a fecal coliform-positive or *E. coli*-positive routine sample is total coliform-positive.
- (c) If a public water system is not in compliance with paragraphs (b)(1) through (4), during any month in which it supplies water to the public, the water supplier shall notify the State Board by the end of the business day on which this is determined, unless the determination occurs after the State Board office is closed, in which case the supplier shall notify the State Board within 24 hours of the determination. The water supplier shall also notify the consumers served by the water system. A Tier 2 Public Notice shall be given for violations of paragraph (b)(1) or (2), pursuant to section 64463.4. A Tier 1 Public Notice shall be given for violations of paragraph (b)(3) or (4), pursuant to section 64463.1.

Section 64463.1 (Tier 1 Public Notice) states in relevant part:

- (a) A water system shall give public notice pursuant to this section and section 64465 if any of the following occurs:
 - (1) Violation of the total coliform MCL when:
 - (A) Fecal coliform or *E. coli* are present in the distribution system; or
 - (B) When any repeat sample tests positive for coliform and the water system fails to test for fecal coliforms or *E. coli* in the repeat sample;...
- (b) As soon as possible within 24 hours after learning of any of the violations in subsection (a) or being notified by the State Board that it has determined there is a potential for adverse effects on human health [pursuant to paragraph (a)(4), (5), or (6)], the water system shall:
 - (1) Give public notice pursuant to this section;
 - (2) Initiate consultation with the State Board within the same timeframe; and
 - (3) Comply with any additional public notice requirements that are determined by the consultation to be necessary to protect public health.
- (c) A water system shall deliver the public notice in a manner designed to reach residential, transient, and nontransient users of the water system and shall use, as a minimum, one of the following forms:
 - (1) Radio or television;
 - (2) Posting in conspicuous locations throughout the area served by the water system;
 - (3) Hand delivery to persons served by the water system; or
 - (4) Other method approved by the State Board, based on the method's ability to inform water system users.

Section 64463.4 (Tier 2 Public Notice) states:

- (a) A water system shall give public notice pursuant to this section if any of the following occurs:
 - (1) Any violation of the MCL, MRDL, and treatment technique requirements, except:
 - (A) Where a Tier 1 public notice is required under section 64463.1; or

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- (B) Where the State Board determines that a Tier 1 public notice is required, based on potential health impacts and persistence of the violations;
- (2) All violations of the monitoring and testing procedure requirements in sections 64421 through 64426.1, article 3 (Primary Standards – Bacteriological Quality), for which the State Board determines that a Tier 2 rather than a Tier 3 public notice is required, based on potential health impacts and persistence of the violations;
- (3) Other violations of the monitoring and testing procedure requirements in this chapter, and chapters 15.5, 17 and 17.5, for which the State Board determines that a Tier 2 rather than a Tier 3 public notice is required, based on potential health impacts and persistence of the violations; or
- (4) Failure to comply with the terms and conditions of any variance or exemption in place.
- (b) A water system shall give the notice as soon as possible within 30 days after it learns of a violation or occurrence specified in subsection (a), except that the water system may request an extension of up to 60 days for providing the notice. This extension would be subject to the State Board's written approval based on the violation or occurrence having been resolved and the State Board's determination that public health and welfare would in no way be adversely affected. In addition, the water system shall:
- (1) Maintain posted notices in place for as long as the violation or occurrence continues, but in no case less than seven days;
 - (2) Repeat the notice every three months as long as the violation or occurrence continues. Subject to the State Board's written approval based on its determination that public health would in no way be adversely affected, the water system may be allowed to notice less frequently but in no case less than once per year. No allowance for reduced frequency of notice shall be given in the case of a total coliform MCL violation or violation of a Chapter 17 treatment technique requirement; and
 - (3) For turbidity violations pursuant to sections 64652.5(c)(2) and 64653(c), (d) and (f), as applicable, a water system shall consult with the State Board as soon as possible within 24 hours after the water system learns of the violation to determine whether a Tier 1 public notice is required. If consultation does not take place within 24 hours, the water system shall give Tier 1 public notice within 48 hours after learning of the violation.
- (c) A water system shall deliver the notice, in a manner designed to reach persons served, within the required time period as follows:
- (1) Unless otherwise directed by the State Board in writing based on its assessment of the violation or occurrence and the potential for adverse effects on public health and welfare, community water systems shall give public notice by:
 - (A) Mail or direct delivery to each customer receiving a bill including those that provide their drinking water to others (e.g., schools or school systems, apartment building owners, or large private employers), and other service connections to which water is delivered by the water system; and
 - (B) Use of one or more of the following methods to reach persons not likely to be reached by a mailing or direct delivery (renters, university students, nursing home patients, prison inmates, etc.):
 1. Publication in a local newspaper;
 2. Posting in conspicuous public places served by the water system, or on the Internet; or
 3. Delivery to community organizations.
 - (2) Unless otherwise directed by the State Board in writing based on its assessment of the violation or occurrence and the potential for adverse effects on public health and welfare, noncommunity water systems shall give the public notice by:
 - (A) Posting in conspicuous locations throughout the area served by the water system; and
 - (B) Using one or more of the following methods to reach persons not likely to be reached by a public posting:
 1. Publication in a local newspaper or newsletter distributed to customers;
 2. E-mail message to employees or students;
 3. Posting on the Internet or intranet; or
 4. Direct delivery to each customer.

Section 64465 (Public Notice Content and Format) states in relevant part:

- (a) Each public notice given pursuant to this article, except Tier 3 public notices for variances and exemptions pursuant to subsection (b), shall contain the following:
- (1) A description of the violation or occurrence, including the contaminant(s) of concern, and (as applicable) the contaminant level(s);
 - (2) The date(s) of the violation or occurrence;
 - (3) Any potential adverse health effects from the violation or occurrence, including the appropriate standard health effects language from appendices 64465-A through G;
 - (4) The population at risk, including subpopulations particularly vulnerable if exposed to the contaminant in drinking water;
 - (5) Whether alternative water supplies should be used;
 - (6) What actions consumers should take, including when they should seek medical help, if known;
 - (7) What the water system is doing to correct the violation or occurrence;
 - (8) When the water system expects to return to compliance or resolve the occurrence;

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(9) The name, business address, and phone number of the water system owner, operator, or designee of the water system as a source of additional information concerning the public notice;

(10) A statement to encourage the public notice recipient to distribute the public notice to other persons served, using the following standard language: —Please share this information with all the other people who drink this water, especially those who may not have received this public notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this public notice in a public place or distributing copies by hand or mail; and

(11) For a water system with a monitoring and testing procedure violation, this language shall be included: "We are required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not your drinking water meets health standards. During [compliance period dates], we ['did not monitor or test' or 'did not complete all monitoring or testing'] for [contaminant(s)], and therefore, cannot be sure of the quality of your drinking water during that time." ...

(c) A public water system providing notice pursuant to this article shall comply with the following multilingual-related requirements:

(2) For a Tier 2 or Tier 3 public notice:

(A) The notice shall contain information in Spanish regarding the importance of the notice, or contain a telephone number or address where Spanish-speaking residents may contact the public water system to obtain a translated copy of the notice or assistance in Spanish; and

(B) When a non-English speaking group other than Spanish-speaking exceeds 1,000 residents or 10 percent of the residents served by the public water system, the notice shall include:

1. Information in the appropriate language(s) regarding the importance of the notice; or
2. A telephone number or address where such residents may contact the public water system to obtain a translated copy of the notice or assistance in the appropriate language; and

(3) For a public water system subject to the Dymally-Alatorre Bilingual Services Act, Chapter 17.5, Division 7, of the Government Code (commencing with section 7290), meeting the requirements of this Article may not ensure compliance with the Dymally-Alatorre Bilingual Services Act.

(d) Each public notice given pursuant to this article shall:

- (1) Be displayed such that it catches people's attention when printed or posted and be formatted in such a way that the message in the public notice can be understood at the eighth-grade level;
- (2) Not contain technical language beyond an eighth-grade level or print smaller than 12 point; and
- (3) Not contain language that minimizes or contradicts the information being given in the public notice.

Appendix 64465-A. Health Effects Language - Microbiological Contaminants.

| Contaminant | Health Effects Language |
|------------------------|---|
| Total Coliform | Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other, potentially-harmful, bacteria may be present. Coliforms were found in more samples than allowed and this was a warning of potential problems. |
| Fecal coliform/E. coli | Fecal coliforms and E. coli are bacteria whose presence indicates that the water may be contaminated with human or animal wastes. Microbes in these wastes can cause short-term effects, such as diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a special health risk for infants, young children, some of the elderly, and people with severely compromised immune systems. |
| Turbidity | Turbidity has no health effects. However, high levels of turbidity can interfere with disinfection and provide a medium for microbial growth. Turbidity may indicate the presence of disease-causing organisms. These organisms include bacteria, viruses, and parasites that can cause symptoms such as nausea, cramps, diarrhea, and associated headaches. |

Section 64469 (Reporting Requirements) states in relevant part:

(d) Within 10 days of giving initial or repeat public notice pursuant to Article 18 of this Chapter, except for notice given under section 64463.7(d), each water system shall submit a certification to the State Board that it has done so, along with a representative copy of each type of public notice given.

Section 64481 (Content of the Consumer Confidence Report) states in relevant part:

(g) For the year covered by the report, the Consumer Confidence Report shall note any violations of paragraphs (1) through (7) and give related information, including any potential adverse health effects, and the steps the system has taken to correct the violation.

(1) Monitoring and reporting of compliance data.

.....

Section 64560 New Well Siting, Construction and Permit Application

(c) Each new public water supply well shall:

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- (1) As a minimum, be constructed in accordance with the community water system well requirements in California Department of Water Resources Bulletins 74-81 and 74-90, which are hereby incorporated by reference;
- (2) Be constructed in accordance with American Water Works Association (AWWA) Standard A100-06 (Water Wells), which is hereby incorporated by reference;
- (3) Be installed such that:
 - (A) All equipment is accessible for operation, maintenance, and removal;
 - (B) Protection is provided against flooding;
 - (C) The wellhead terminates a minimum of 18 inches above the finished grade;
 - (D) Wellhead and electrical controls are not installed in vaults;
 - (E) The well is equipped with:
 - 1. Fittings and electrical connections to enable chlorination facilities to be readily installed; *NOTE:*
 - 2. A non-threaded down-turned sampling tap located on the discharge line between the wellhead and the check valve. Sampling taps used for obtaining samples for bacteriological analysis shall not have a screen, aerator, or other such appurtenance;
 - (F) Provisions are made to allow the well to be pumped to waste with a waste discharge line that is protected against backflow.

BOIL WATER NOTICE**BOIL YOUR WATER BEFORE USING**

Failure to follow this advisory could result in stomach or intestinal illness.

Due to Fecal Coliform positive samples from the water system taken on March 10, 2016, the State Water Resource Control Board - Division of Drinking Water, and Blue Bell Valley Mutual Water Company Water are advising residents of the Blue Bell Valley Development who use Blue Bell Valley Mutual Water Company water to use boiled tap water or bottled water for drinking and cooking purposes as a safety precaution.

DO NOT DRINK THE WATER WITHOUT BOILING IT FIRST. Bring all water to a boil, **let it boil for one (1) minute**, and let it cool before using, or use bottled water. Boiled or bottled water should be used for drinking and food preparation **until further notice**. Boiling kills bacteria and other organisms in the water. This is the preferred method to assure that the water is safe to drink.

- Water disinfection tablets may also be used by following the manufacturer's instructions.
- Optional: Potable water is available at grocery stores.

We will inform you when tests show that water is safe to drink and you no longer need to boil your water. We anticipate resolving the problem within two (2) weeks.

For more information call:

Water Utility contact: Blue Bell Valley Mutual Water Company Answering Service, (209) 533-7954, (round the clock service), or/and P.O. Box 56, Standard, CA 95373, Tim Holden, President.

State Water Resource Control Board - Division of Drinking Water: (559) 447-3300, Merced District Office

Tuolumne County Environmental Health: Christy McKinnon at (209) 533-5633.

Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.

Certification of Completion of Public Notification

This form, when completed and returned to the Division of Drinking Water – Merced District (265 W. Bullard Ave. #101, Fresno, CA 93704 or fax to 559-447-3304), serves as certification that public notification to water users was completed as required by Title 22, California Code of Regulations, Sections 64463-64465.

Public Water System Name: _____

Public Water System No.: _____

Public notification for **significant rise in bacterial count for the month of March 2016** was performed by the following method(s) (check and complete those that apply):

The notice was mailed to users on: _____
A copy of the notice is attached.

The notice was hand delivered to water customers on: _____
A copy of the notice is attached.

The notice was published in the local newspaper on: _____
A copy of the newspaper notice is attached.

The notice was published in conspicuous places on: _____
A copy of the notice is attached.
A list of locations the notice was posted is attached.

The notice was delivered to community organizations on: _____
A copy of the notice is attached.
A list of community organizations the notice was delivered to is attached.

I hereby certify that the above information is factual.

Printed Name

Title

Signature

Date

Disclosure: Be advised that Section 116725 and 116730 of the California Health and Safety Code state that any person who knowingly makes any false statement on any report or document submitted for the purpose of compliance with the attached order may be liable for a civil penalty not to exceed five thousand dollars (\$5,000) for separate violation each day that the violation continues. In addition, the violators may be prosecuted in criminal court and, upon conviction, be punished by a fine of not more than \$25,000 for each day of violation, or be imprisoned in the county jail not to exceed one year, or by both the fine and imprisonment.

Due to the Division of Drinking Water within 10 days of issuance of notice to customers
System Number: 5500040
Enforcement Action No.: 03-11-16C-011

APPENDIX 4. POSITIVE TOTAL COLIFORM INVESTIGATION

This form is intended to assist public water systems in providing the information required by California Code of Regulations, Title 22, Section 64426(b). Its use is not required and the contents may be modified. An electronic copy is available at:
http://www.swrcb.ca.gov/drinking_water/certific/drinkingwater/Lawbook.shtml

ADMINISTRATIVE INFORMATION

| | | | | |
|--|--------------|------|------------------------|------------------|
| Entity Name: PWSID NUMBER: | System Type: | Name | System Address & Email | Telephone Number |
| Operator in Responsible Charge (ORC) | | | | |
| Person that collected TC samples if different than ORC | | | | |
| System Owner | | | | |
| Certified Laboratory for Microbiological Analyses | | | | |
| Date Investigation Completed: | | | | |
| Month(s) of Total Coliform MCL Failure: | | | | |

INVESTIGATION DETAILS

| SOURCE | WELL (name) | WELL (name) | WELL (name) | WELL (name) | WELL (name) | COMMENTS (attach additional pages if needed) |
|---|----------------|----------------|----------------|----------------|----------------|---|
| 1. Inspect each well head for physical defects and report | | | | | | |
| a. Is raw water sample tap upstream from point of disinfection? | | | | | | |
| b. Is wellhead vent pipe screened? | | | | | | |
| c. Is wellhead seal watertight? | | | | | | |
| d. Is well head located in pit or is any piping from the wellhead submerged? | | | | | | |
| e. Does the ground surface slope towards well head? | | | | | | |
| f. Is there evidence of standing water near the wellhead? | | | | | | |
| g. Are there any connections to the raw water piping that could be cross connections? (describe all connections in comments) | | | | | | |
| h. Is the wellhead secured to prevent unauthorized access? | | | | | | |
| i. To what treatment plant (name) does this well pump? | | | | | | |
| j. How often are raw water total coliform (TC) samples taken and analyzed? | | | | | | |
| k. Provide the date and result of the last TC test at this location | | | | | | |
| 2. Inspect and review records for surface water source (if applicable) | | | | | | |
| a. Have there been any events in the watershed or near the intake that might have contributed to TC+ or EC+ results? (Describe) | | | | | | |

| TREATMENT | PLANT (NAME) | PLANT (NAME) | PLANT (NAME) | PLANT (NAME) | COMMENTS |
|---|-----------------|-----------------|-----------------|-----------------|----------|
| 1. If you provide continuous chlorination treatment was there any equipment failure? | | | | | |
| a. Did the distribution system maintain chlorine residual? | | | | | |
| b. Was emergency chlorination initiated? If yes, for how long? | | | | | |
| c. Did the distribution system lose chlorine residual? | | | | | |
| 2. If you do not provide routine chlorination, was emergency chlorination initiated? If Yes, when? | | | | | |
| 3. Inspect each point where disinfectant is added and report | | | | | |
| a. Is the disinfectant feed pump feeding disinfectant? | | | | | |
| b. What is the feed rate of disinfectant in ml/minute? | | | | | |

| TREATMENT | PLANT (NAME) | PLANT (NAME) | PLANT (NAME) | PLANT (NAME) | PLANT (NAME) | COMMENTS |
|--|--------------|--------------|--------------|--------------|--------------|----------|
| c. What is the concentration of the disinfectant solution being fed? (percent or mg/l of chlorine as HOCl) | | | | | | |
| d. By what method was the concentration of solution determined? (ex: measured, manufacturer's literature) | | | | | | |
| e. What is the age (days) of the disinfectant solution currently being used at this treatment location? | | | | | | |
| f. What is the raw water flow rate at the point where disinfectant is added in gallons per minute? | | | | | | |
| g. What is the total chlorine residual measured immediately downstream from the point of application? | | | | | | |
| h. What is the free chlorine residual measured immediately downstream from the point of application? | | | | | | |
| i. What is the contact time in minutes from the point of disinfectant application to the first customer? | | | | | | |

| SAMPLE SITE EVALUATION (Complete for all TC+ or EC+ findings) | | | | | | |
|---|-------------------------|---------------|-----------------|--------------------|--|--|
| | Routine Site TC+ or EC+ | Upstream Site | Downstream Site | Sample 4 (specify) | | |
| 1. What is the height of the sample tap above grade? (inches) | | | | | | |
| 2. Is the sample tap located in an exterior location or is it protected by an enclosure? | | | | | | |
| 3. Is the sample tap threaded, have a swing arm (kitchen sink) or an aerator (sinks)? | | | | | | |
| 4. Is the sample tap in good condition, free of leaks around the stem or packing? | | | | | | |
| 5. Can the sample tap be adjusted to the point where a good laminar flow can be achieved without excessive splash? | | | | | | |
| 6. Is the sample tap and areas around the sample tap clean and dry (free of animal droppings other contaminants or spray irrigation systems)? | | | | | | |
| 7 Is the area around the sample tap free of excessive vegetation or other impediments to sample collection? | | | | | | |
| 8. Describe how the tap was treated in preparation for sample collection (ran water, swabbed with disinfectant, flamed, etc.). | | | | | | |
| 9. Is this sample tap designated on the sampling plan submitted with this information request? | | | | | | |
| 10. What were the weather conditions at the time of the positive sample (rainy, windy, and sunny)? | | | | | | |

| STORAGE | | TANK (name) | TANK (name) | TANK (name) | TANK (name) | COMMENTS |
|---------|---|----------------|----------------|----------------|----------------|----------|
| 1. | Is each tank locked to prevent unauthorized access? | | | | | |
| 2. | Are all vents of each tank screened down-turned to prevent dust and dirt from entering the tank? | | | | | |
| 3. | Is the overflow on each tank screened? | | | | | |
| 4. | Are there any unsealed openings in the tank such as access doors, water level indicators hatches, etc.? | | | | | |
| 5. | Is the roof/cover of the tank sealed and free of any leaks? | | | | | |
| 6. | Is the tank above ground or buried? | | | | | |
| | a. If buried or partially buried, are there provisions to direct surface water away from the site. | | | | | |
| | b. Has the interior of the tank been inspected to identify any sanitary defects, such as root intrusion? | | | | | |
| 8. | Does the tank "float" on the distribution system or are there separate inlet and outlet lines? | | | | | |
| 9. | What is the measured chlorine residual (total/free) of the water exiting the storage tank today ? | | | | | |
| 10. | What is the volume of the storage tank in gallons? | | | | | |
| 11. | Is the tank baffled? | | | | | |
| 12. | Prior to the TC+ or EC+, what was the previous date item #1-7 were checked and documented? | | | | | |

| DISTRIBUTION SYSTEM | | SYSTEM RESPONSES | | | | |
|---------------------|--|------------------|--|--|--|--|
| 1. | What is the minimum pressure you are maintaining in the distribution system? | | | | | |
| 2. | Did pressure in the distribution system drop to less than 5 psi prior to positive bacti? | | | | | |
| 3. | Has the distribution system been worked on within the last week? (taps, hydrant flushing, main breaks, mainline extensions, etc.) If yes, provide details. | | | | | |
| 4. | Are there any signs of excavations near your distribution system not under the direct control of your maintenance staff? | | | | | |
| 5. | Did you inspect your distribution system to check for mainline leaks? Do you or did you have a mainline leak? | | | | | |
| 6. | If there was a mainline leak, when was it repaired? | | | | | |
| 7. | On what date was the distribution system last flushed? | | | | | |
| 8. | Is there a written flushing procedure you can provide for our review? | | | | | |
| 9. | Do you have an active cross-connection control program? | | | | | |
| 10. | What is name & phone number of your Cross-Connection Control Program Coordinator? | | | | | |
| 11. | Is the review and testing of backflow prevention devices current? | | | | | |
| 12. | On what date was the last physical survey of the system done to identify cross-connections? | | | | | |

| BOOSTER STATION | | Response |
|-----------------|--|----------|
| 1. | Do you have a booster pump? How many? | |
| 2. | Do you have a standby booster pump if the main pump fails? | |
| 3. | Prior to bacteriological quality problems, did your booster pump fail? | |
| 4. | Do you notice standing water, leakage at the booster station? | |

| GENERAL OPERATIONS: | | Response |
|---|--|----------|
| 1. Where there any power outages that affected water system facilities during the 30 days prior to the TC+ or EC + findings? | | |
| 2. Were there any main breaks, water outages, or low pressure reported in the service area where TC+ or EC+ samples were located. | | |
| 3. Does the system have backup power or elevated storage? | | |
| 4. During or soon after bacteriological quality problems, did you receive any complaints of any customers' illness suspected of being waterborne? How many? | | |
| 5. What were the symptoms of illness if you received complaints about customers being sick? | | |

ADDITIONAL INFORMATION THAT MAY BE SUBMITTED WITH RESPONSES TO THE ABOVE QUESTIONS

1. **Sketch** of System showing all sources, treatment locations, storage tanks, microbiological sampling sites and general layout of the distribution system including the location of all hazardous connections such as the wastewater treatment facility.
2. A set of photographs of the well, pressure tanks, and storage tanks in the system may be submitted if they would show that the contamination is directly related and changes have been made since the last inspection by the Water Board
3. Name, certification level and certificate number of the Operator in Responsible Charge.
4. Copy of the last cross connection survey performed that identifies the location of all unprotected cross connections.
5. Updated source water assessment(s) (DWSAP) if there have been changes to well construction or potentially contaminating activities (PCA list) since last inspection.

SUMMARY: BASED ON THE RESULTS OF YOUR INVESTIGATION AND ANY OTHER INFORMATION AT YOUR DISPOSAL, WHAT DO YOU BELIEVE TO BE THE CAUSE OF THE POSITIVE TOTAL COLIFORM SAMPLES FROM THE PUBLIC WATER SYSTEM?

CERTIFICATION: I CERTIFY UNDER PENALTY OF LAW, BASED ON INFORMATION AND BELIEF FORMED AFTER REASONABLE INQUIRY, THAT THE STATEMENTS AND INFORMATION CONTAINED IN THIS APPENDIX ARE TRUE, ACCURATE AND COMPLETE.

NAME: _____ **TITLE:** _____ **DATE:** _____

Bacteriological Distribution Monitoring Report

5500040 BLUEBELL VALLEY MWC
Distribution System Freq: 1/M

| Sample Date | Location | T Coli | E Coli | F Coli | HPC | Type | Cl2 | Violation | Comment |
|-------------|--|--------|--------|--------|-----|----------|-----|-----------|---------------|
| 3/9/2016 | 15185 Mt Lily Rd | 4.6 | <1.1 | 1.1 | | Routine | | | |
| 3/11/2016 | 14945 Bluebell West | P | A | | | Repeat | | | |
| 3/11/2016 | 15185 Mt Lily | P | P | | | Repeat | | MCL | 03-11-16C-011 |
| 3/11/2016 | 17863 Shooting Star | P | A | | | Repeat | | | |
| 3/11/2016 | Well 1a | P | A | | | Source R | | | |
| 3/11/2016 | Well 1b | P | P | | | Source R | | | |
| 3/11/2016 | Well 2 | A | A | | | Source R | | | |
| 3/16/2016 | 15143 Mt Lily Rd | <1.1 | | | | Other | | | Post Cl2 |
| 3/16/2016 | 5 samples - 18036, 17840, 14945 Bluebell, 17840 Bluebell, 17863 Shooting Star | <1.1 | | | | Other | | | |
| 3/16/2016 | ATCAA School, 17781 Butter Cup | <1.1 | | | | Other | | | |
| 3/16/2016 | Well 5 | <1.1 | | | | Other | | | Post Cl2 |
| 3/18/2016 | 17781 Buttercup circle | <1.1 | | | | Other | | | |
| 3/18/2016 | 5 samples - 18036, 17840, 14945 Bluebell, 17840 Bluebell, 17863 Shooting Star 5 samples - 18036, 17840, 14945 Bluebell, 17840 Bluebell, 17863 Shooting Star | <1.1 | | | | Other | | | |
| 3/18/2016 | ATCAA School | <1.1 | | | | Other | | | |
| 3/18/2016 | Well 2 | <1.1 | | | | Other | | | |
| 4/6/2016 | 14945 Bluebell W | <1.1 | | | | Routine | | | |
| 4/26/2016 | 5 samples - 18086, 17840 Bluebell E, 15185 Mt Lily, 14945 Bluebell W, 17863 Shooting Star | <1.1 | | | | Routine | | | |

Violation Key

| | | | |
|-----|--|-----|--|
| MR1 | No monthly sample for the report month | MR4 | Did not collect 5 routine samples for previous month's positive sample |
| MR2 | No quarterly sample for the report month | MR5 | Incorrect number of repeat samples as follow-up to a positive sample |
| MR3 | Incorrect number of routine samples for the report month | MR6 | No source sample |
| | | MR7 | No summary report submitted |
| | | MR8 | Other comments and/or info. |

BLUEBELL VALLEY MWC**5500040****Source Monitoring Freq:**

| <i>Sample Date</i> | <i>Time</i> | <i>Source</i> | <i>T Coli</i> | <i>E Coli</i> | <i>F Coli</i> | <i>HPC</i> | <i>Turbidity</i> | <i>Violation</i> | <i>Comment</i> |
|--------------------|-------------|--------------------------------|---------------|---------------|---------------|------------|------------------|------------------|---|
| 3/10/2016 | | Well 1b - 30 mins | >8.0 | >8.0 | >8.0 | | | | |
| 3/10/2016 | | Well 1b - 10 mins | >8.0 | >8.0 | >8.0 | | | | |
| 3/10/2016 | | Well 1b - 5 mins | >8.0 | >8.0 | >8.0 | | | | |
| 3/10/2016 | | Well 1b - 1 min | 8.0 | 1.1 | 2.6 | | | | |
| 3/10/2016 | | Well 1b - start | 4.6 | 1.1 | 2.6 | | | | cycle test |
| 3/22/2016 | | Well 4 - 30 mins | <1.1 | | | | | | |
| 3/22/2016 | | Well 4 - 10 mins | <1.1 | | | | | | |
| 3/22/2016 | | Well 4 - 5 mins | <1.1 | | | | | | |
| 3/22/2016 | | Well 4 - 1 min | <1.1 | | | | | | |
| 3/22/2016 | | Well 4 - start | <1.1 | | | | | | |
| 4/12/2016 | | Well 1a Cycle test - 5 samples | <1.1 | <1.1 | <1.1 | | | | first draw, 1 min., 4 mins., 15 mins., 30 mins. |